BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:- Improvements to Roads and Drains in Amruthahalli and Surrounding areas in ward no.07, Byatarayanapura.

[Pick the date]

Estimate cost: 25.00 lakhs

Ward 7 byatarayanapura

Name of Work:- Improvements to Roads and Drains in Amruthahalli and Surrounding areas in ward no.07, Byatarayanapura.

Estimated Cost:- 25.00 Lakhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6.00	7.00	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.143.Item No.19.1)								
	Cross roads-RCC DRAIN WORKS		1	100.00	0.90	0.90	81.00		
	Croass roads-CC Pavements		1	170.00	4.00	0.30	204.00		
	over burden		1	50.00	0.60	0.90	27.00		
					TOTAL		**312.00**	137.80	**42994.00**
	Basic Rate:	cum	**130.00**						
	Area Weightage @ 6%		7.80						
	Total		**137.80**						
2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration inlcuding curing for 14 days including cost of all materials labour, HOM curing, form works, scaffolding and centering complete as per specification . (Pg.No.222, It.27.18)								
	RCC DRAIN-BOTTOM		1.00	100.00	0.90	0.15	13.50		
	Cross roads-		1.00	170.00	4.00	0.15	102.00		
					TOTAL		**115.50**	5421.90	**626230.00**
	Basic Rate:	cum	5115.00						
	Area Weightage @ 6%		306.90						
	Total		5421.90						

3	KSRB- 4-1.5: Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC cement @ 240 Kgs , with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53 cum, machine mixed, concrete laid in layers no exceeding 15cms thick well comapcted, in founation, plinth and cills including cost of all materails, labour, HOM curing complate as per specfiications. (Pg No.13, It No.4.6)								
	Bottom								
	Cross roads-RCC DRAIN		1	170.00	0.90	0.15	22.95		
	Side Wall								
	Cross roads-RCC DRAIN	**1*2**	2	170.00	0.15	0.60	30.60		
							53.55	5747.32	**307769.00**
	Basic Rate:	cum	5422.00						
	Area Weightage		325.32						
	Total		5747.32						
4	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.28.8.2, Item No.229)								
	Reinforcement for side wall						53.55		
			At 55 Kg % per cum				**2.95**	72326.98	**213022.00**
	Basic Rate:	Tonn	68233.00						
	Area Weightage @ 6%		4093.98						
	Total		72326.98						
5	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular slabs /side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								
	SIDE WALL								
	Cross roads-RCC DRAIN	2x4	8	170.00		0.60	816.00		
							816.00	483.36	**394422.00**
	Basic Rate:	Sqm	456.00						
	Area Weightage @ 6%		27.36						
	Total		483.36						
6	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (Data Rate Approved)								

	Damage covering slab		170.00	0.6	0.90		91.80		
					TOTAL		**91.80**	2337.00	**214537.00**
	Basic Rate:	**sqm**	**2337.00**						
	Area Weightage @ 6%		**0.00**						
	Total		**2337.00**						
7	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavements using grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregate at 0.46 cum, coarse and fine aggregate confirming to IS:383-2016, with superplastisiser @3lts confirming to IS9103-2008 mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades textured machine, and curing including cost of all materials, labour, hire charges of machineries, all lead and lift charges etc.., complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) (Pg.No.176, It.22.6.1)								
	Croass roads-CC Pavements		1.00	170.00	4.00	0.10	68.00		
					TOTAL		**68.00**	5210.96	**354346.00**
	Basic Rate:	**cum**	**4916.00**						
	Area Weightage @ 6%		294.96						
	Total		**5210.96**						
8	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift.(Pg.No.176, It.22.7)								
			1.00	170.00	4.00		680.00		
					TOTAL		**680.00**	72.08	**49015.00**
	Basic Rate:	**sqm**	**68.00**						
	Area Weightage @ 6%		4.08						
	Total		**72.08**						

9	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 136, item No.								
	Basic Rate	cum	**57.00**				312.00	94.34	**29435.00**
	Rs. 2.50 Tonne								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28Ton		**32.00**						
	Total		**89.00**						
	Add Area Weightage6%		**5.34**						
			94.34						
10						**Sub Total**			**2231770.00**
11				**Add 12% GST charges**					**267812.40**
12				**Miscelleneous charges**					**417.60**
13						**Total**			**2500000.00**

; **1)This is certified that the work spot comes under BBMP limits only.**
2) The work spot is inspected by me
3) The items Provided in the Estimate are quite Essential
4)The rates are as per CSR of 2018-19 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Pa
Bangalore - 560 092

18/03

Executive Engineer
Byatrayanapura Division
B.B.M.P.

18/03

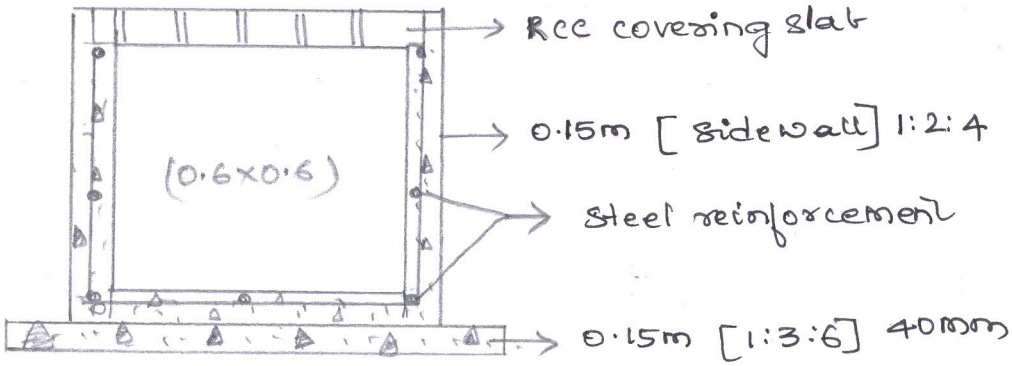
Administrative Approval
Accorded For Rs 25 Lakhs only
Head of A/C P1771
CER NO :115 Dt:20.03.2020

TA CE (YNK)

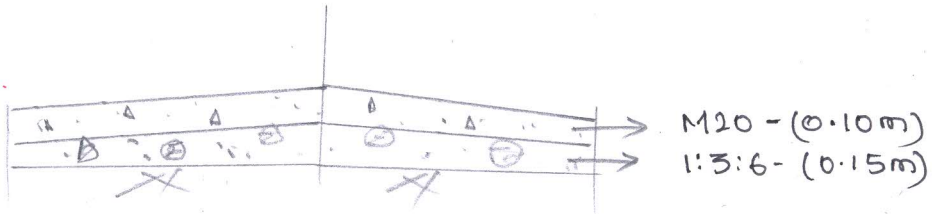
Technical Sanction
Accorded For Rs 25 Lakhs only
Head of A/C P1771
CER NO :311 Dt:20.03.2020

TA CE (YNK)

Name of Work: Improvements to roads and drains in Aramthalli and surrounding areas in ward no.07, byatarayanapura.



RCC-DRAIN - CROSS SECTION



CROSS-SECTION OF CC-PAVEMENT

M.N.D
AE(W)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092